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ORIGINAL DOCUMENT MISSING PAGE(S):

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26 February 1958

MEMORANDUM FOR: Project Director

ATTENTION : [] 25X1

SUBJECT : Preamplifier for Bands 1A and 1B in System IV

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The [] lethargy shows in Serial 103. Receivers 1A and 1B have a laboratory lock-on noise figure of 28-36 db. This is 10-18 db. more than the state of the art requires. Furthermore the receiver becomes degraded further with time and temperature, so that another 8-10 db may be lost toward the end of a 7 hour flight. This comes about chiefly because [] doesn't know how to build a receiver. He and [] have suggested that they be authorized to re-design the receiver again. This Staff recommends against this and proposes that HNB be asked to build a preamp for the 1A and 1B receivers.

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RECOMMENDATIONS: HNB be asked to build one preamp for the 1A/1B receiver combination to be used for evaluation purposes. If the first is as expected, then enough further preamps should be built to satisfy the requirements of one per system.

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Acting ELINT Staff Officer

Distribution:

Copy 1 and 2 - []

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3 - []

4 - []

5 and 6 - HSO

7 - Project Chrono

APPROVED BY THR BISSELL

3/17/58 DMK

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Contracts